

Dmytro BOGATOV

PhD student at Boston University |

Database Security, Secure Range Query protocols, ORE / OPE schemes, ORAM

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Born in Ukraine in 1996



I have graduated from Lyceum in Kyiv and enrolled at WPI. During my undergraduate program, I have worked on a number of internships and have completed many research and industry oriented projects. I have graduated from WPI in 2017 with nearly perfect GPA and have enrolled at BU for 5-years PhD program in Data Science. For the first two years I am completing the terminal Master's requirements and doing research. Currently, I am looking for a research internship in the area of Database Security. I am particularly interested in Secure Range Query protocols, ORE / OPE schemes, ORAM.

SKILLS

Programming Languages	C#, TypeScript / JavaScript, Python, Java, C/C++, HTML, SQL, \LaTeX , Go, Bash, x86 ASM
Frameworks	.NET Core, ASP MVC, xUnit, Angular
Common skills	git, docker, bash, console, \LaTeX , VS Code
DevOps	Ubuntu / CoreOS, Kubernetes, CI / CD, infrastructure automation, NGINX, load balancing
Grad classes	Advanced Algorithms, Cryptography, Advanced Database Systems, Advanced Operating Systems, Distributed Systems, Compiler Design, Applied Cryptography, Optimization Methods

EDUCATION

2013	High school (Lyceum 157 in Kyiv) graduation with high distinction. GPA 4.00.
2017	Bachelor of Science in Computer Science from WPI with high distinction. GPA 3.98.
Expected 2023	Doctor of Philosophy in Computer Science (Data Science) from BU. Current GPA 4.00.

PUBLICATIONS

- [BKR19] D. Bogatov, G. Kollios, and L. Reyzin. "A Comparative Evaluation of Order-Revealing Encryption Schemes and Secure Range-Query Protocols". In: *PVLDB* 12 (2019).
- [Bog17] D. Bogatov. "Analysis of a Dynamic Voluntary Contribution Mechanism Public Good Game". In: *IPE Journal* 26 (2017).
- [BH16] D. Bogatov and J. R. Hennessy. "Data MATTERS: Customizing Economic Indices to Measure State Competitiveness". In: *WPI Library* (2016).
- [Nur+15] B. Nurbekov, D. Bogatov, J. S. Xu, and R. J. O'Brien. "Investment Trading And Risk Management: Scientifically Developing and Analyzing Trading Systems". In: *WPI Library* (2015).

CONFERENCES

- > 2016 IEEE MIT Undergraduate Research Technology Conference
- > 23rd Annual Issues in Political Economy Conference
- > Second Workshop on Encryption for Secure Search and other Algorithms

PAPER REVIEWS

2019 ICDE

PROFESSIONAL EXPERIENCE

Present September 2017	PhD Student / Research Assistant, BOSTON UNIVERSITY, Boston, MA, USA <ul style="list-style-type: none">> Research in academia (see publications section)> Teaching — lecturing, office hours, grading exams research classes conferences seminars teaching
August 2017 February 2017	Web / DevOps developer, REDWOODEDA, Shrewsbury, MA, USA <ul style="list-style-type: none">> Developed a large-scale micro-services application status.dbogato.org> Developed the solution for a company, then open-sourced .NET Core web devops C# PostgreSQL

- May 2017**
January 2016 | **Co-founder / web developer, SHEVASTREAM, Kyiv, Ukraine**
 - > Managing a small retail-oriented startup shevastream.com
 - > Developed a full-featured e-commerce website (C# / .NET Core / Linux)startup .NET Core web C# PostgreSQL
- October 2016**
January 2016 | **Web developer, WORCESTER POLYTECHNIC INSTITUTE, Worcester, MA, USA**
 - > Developed a large-scale web system — MATTERS.mhtc.org
 - > Led server-side development (Java / Spring)
 - > Assisted in front-end technical developmentSpring framework Java statistics data analysis web PostgreSQL
- August 2015**
Jun 2015 | **Web developer / Quantitative analyst, TRADESTATION SECURITIES, Plantation, FL, USA**
 - > Led a team of five interns
 - > Designed and developed a Web Dashboard for clients
 - > Worked on .NET stack (ASP.NET / MS SQL / Windows Server).NET ASP MVC MS SQL data analysis web
- December 2016**
September 2014 | **Senior Teaching Assistant, WORCESTER POLYTECHNIC INSTITUTE, Worcester, MA, USA**
 - > Assisted in teaching graduate and undergraduate CS classes
 - > Held office hours, proctored exams, conducted labs, graded assignmentsteaching exams lectures classes

PROJECTS

ORE BENCHMARK

MAY 2017 — OCTOBER 2017

ore.dbogatov.org [white paper](#)

A Comparative Evaluation of Order-Preserving and Order-Revealing Schemes and Protocols

C# .NET Core research ORE range query protocols

STATUS SITE

FEB 2017 — PRESENT

status.dbogatov.org [source code](#)

A multi-component system for collecting and analyzing the infrastructure health

C# .NET Core ASP MVC TypeScript Kubernetes micro-services

SHEVASTREAM

JANUARY 2016 — MAY 2017

shevastream.com [source code](#)

A small retail-oriented startup that sells custom-designed notebooks

startup .NET Core web C# PostgreSQL

MATTERS

JANUARY 2016 — OCTOBER 2016

MATTERS.mhtc.org [source code](#)

A web tool that lets users interactively do an extensive analysis over economic data collected for all states

Spring framework Java statistics data analysis web PostgreSQL

LOTS OF OTHER DIFFERENT PROJECTS

ALL THE TIME

[see my portfolio](#) [see me on GitHub](#)

I do different projects all the time. See all of them on my personal website dbogatov.org

have fun

LANGUES

English ●●●●●●
 Ukrainian ●●●●●●
 Russian ●●●●●●

AWARDS

- > **Chair's Fellowship** at BU
- > **"Outstanding Junior"** at WPI
- > **Dean's List** all semesters at WPI
- > **Charles O. Thompson Scholar** at WPI
- > **The Future of Ukraine** project fair award at Kyiv

ACTIVITIES

- > Officer / IT manager at RSSA organization at WPI
- > Career Fair Volunteer at WPI

REFEREES

George Kollios

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Leo Reyzin

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